

Amendments to the Specification:

Please replace paragraph [0037] with the following amended paragraph:

[0037] A pixel saturation problem exists when applying Equation 4.2 for color matching image 34 to image 32. If parameter τ is greater than 1, $\tau S(x)$ will be easily greater than 1. Thus, τ has to be weighted according to the pixel value. In one embodiment, a linear weighing function is determined experimentally to give good result is defined as follows:

$$x_c = S^{-1}(W(\tau, x_o)S(x_o)), \text{ or} \quad (5.1)$$

$$[R_c, G_c, B_c] = [S_R^{-1}(W(\tau_R, R)S_R(R)), S_G^{-1}(W(\tau_G, G)S_G(G)), S_B^{-1}(W(\tau_B, B)S_B(B))], \quad (5.2)$$

where W is the weighing function defined as:

$$W(\tau, x) = \tau + (1 - \tau) \frac{W(\tau, x_o)}{x_o} \quad (6)$$